

Laboratory	Miltech Industries Pvt. Ltd., Plot No. F-27/1, MIDC Hingna Road, Nagpur, Maharashtra		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	31.05.2014
Certificate Number	T-1093	Valid Until	30.05.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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I. MECHANICAL PROPERTIES OF MATERIALS

1.	Ferrous & Non Ferrous Alloy	Rockwell Hardness	IS 1586-2000, (RA 2006)	(25 to 40) HRC (60 to 70) HRC (50 to 100) HRB
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II. PLASTICS, RUBBER AND LEATHER

1.	Plastic Material & Product	Sp. Gravity	ASTM D 792-08	0.7 to 3.0
		Density	IS 867-1963	0.8 gm/cc to 3 gm/cc
		Rockwell Hardness	ASTM D 785-2003	(40 to 130) HRR
		Shore D Hardness	ASTM D 2240-2005	10 to 99
		Tensile strength % Elongation	ASTM D 638-2003 IS 867-1963	2 N/mm ² to 250 N/mm ² 1% to 600%
		Compressive strength	ASTM D 695-2002	2 N/mm ² to 300 N/mm ² (Capacity of M/c: Upto 100 kN)
		Cross Breaking strength	IS 867-1963	1 kg/cm ² to 3000 kg/cm ² (Capacity of M/c: Upto 100 kN)
		Izod Impact test	ASTM D 256-2006, ISO 180-2000 IS 867-1963	(2 to 650) J/M
		Charpy Impact test	ISO 179-1&2 -2005	(2 to 650) J/M

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	Plastic Material & Product	Melt flow index(MFI)	ASTM D 1238-2010, ISO 1133-2005	(0.1 to 40) gm/10 minutes
		Melting point	ISO 3146-2000	Upto 380°C
		Vicat softening point	ASTM D 1525-2006	Upto 380°C
		Tensile Modulus	ASTM D 638-2003	1 N/mm ² to 3000 N/mm ² (Capacity of M/c: Upto 30 kN)
		HDT	ASTM D 648-2006 IS 13360 (Part-6) -1999 IS 867-1963	Upto 380°C
		Water absorption test	ASTM D 570-1998 (2005) IS 867-1963	0.01% to 10.0%
		Flexural properties	ASTM D 790-2010, ISO 179-2010	FS: (1 to 3000) N/mm ² FM: (1 to 6000) N/mm ²
2.		Rubber & Rubber Product	Tensile Strength & % Elongation	IS 3400 (Part-1)- 2012
	Density		IS 3400 (Part-9)- 2003	0.7 g/cc to 3.0 g/cc
	Compression set (250°C Max & 200 hrs Max)		IS 3400 (Part-10)- 1977	5% to 50% of thickness

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	Rubber & Rubber Product	Shore A Hardness	IS 3400 (Part 23)- 2002	10 to 99
		Accelerated ageing test (250°C Max & 200 hrs Max)	IS 3400 (Part 4)- 2012	Hardness : $\pm 40\%$ Tensile strength : $\pm 60\%$ % Elongation : $\pm 60\%$

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